

Patent Abstracts of Japan

PUBLICATION NUMBER : 2004199887
PUBLICATION DATE : 15-07-04

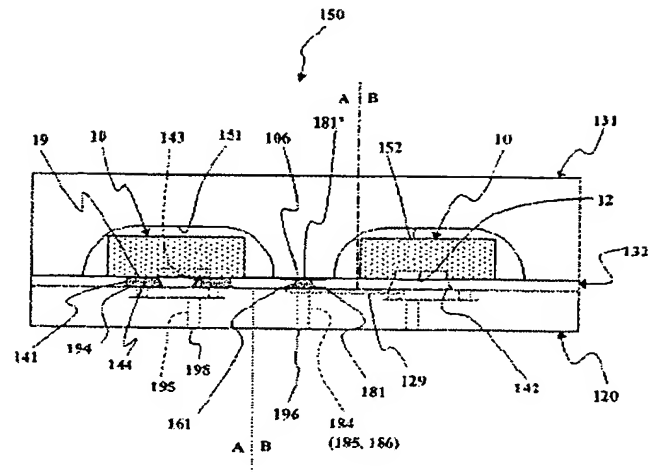
APPLICATION DATE : 16-12-02
APPLICATION NUMBER : 2002363674

APPLICANT : AGILENT TECHNOL INC;

INVENTOR : KONDO TAKESHI;

INT.CL. : H01H 61/01 H01H 1/08 H01H 29/30
H01H 61/013

TITLE : ELECTRICAL CONTACT SWITCHING
DEVICE USING CONDUCTIVE FLUID
AND ITS MANUFACTURING METHOD



ABSTRACT : PROBLEM TO BE SOLVED: To provide an electrical contact switching device small in size, quick to perform a switching operation, able to assure stability of the operation and easy to manufacture.

SOLUTION: The device arranges a 3rd substrate 132 for housing an interconnection means 144 for electrically connecting a conductive fluid 106 at least part of which is movable, with a heater and a circuit wiring, between a 1st substrate 10 having a heater 18 for heating gas in a sealed space and a 2nd substrate 120 on which a plurality of electrodes 184, 185, 186 composing an electrical path and the circuit wiring electrically connected to the heater 18 are formed, and varies the electrical path by expanding a volume of the gas by heating and by moving the conductive fluid.

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